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Title: DATA DISPLAY WITH MULTIPLE LAYERED SCREENS

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| Examiner Initial | No. | Patent No. | Date       | Patentee             | Class | Sub-class | Filing Date |
|------------------|-----|------------|------------|----------------------|-------|-----------|-------------|
|                  | A   | 4,239,349  | 12-16-1980 | Scheffer, Terry      |       |           |             |
|                  | B   | 4,294,516  | 10-13-1981 | Brooks, Philip       |       |           |             |
|                  | C   | 4,333,715  | 06-08-1982 | Brooks, Philip       |       |           |             |
|                  | D   | 4,371,870  | 02-01-1983 | Biferno, Michael     |       |           |             |
|                  | E   | 4,472,737  | 09-18-1984 | Iwasaki, Kenji       |       |           |             |
|                  | F   | 4,523,848  | 06-18-1985 | Gorman et al.        |       |           |             |
|                  | G   | 4,568,928  | 02-04-1986 | Biferno, Michael     |       |           |             |
|                  | H   | 4,648,691  | 03-10-1987 | Oguchi et al.        |       |           |             |
|                  | I   | 4,649,425  | 03-10-1987 | Pund, Marvin         |       |           |             |
|                  | J   | 4,712,869  | 12-15-1987 | Claxton, John C.     |       |           |             |
|                  | K   | 4,947,257  | 08-07-1990 | Fernandez et al.     |       |           |             |
|                  | L   | 5,091,720  | 02-25-1992 | Wood, Roger          |       |           |             |
|                  | M   | 5,112,121  | 05-12-1992 | Chang et al.         |       |           |             |
|                  | N   | 5,113,272  | 05-12-1992 | Reamey, Robert       |       |           |             |
|                  | O   | 5,124,803  | 06-23-1992 | Troxel, Donald       |       |           |             |
|                  | P   | 5,198,936  | 03-30-1993 | Stringfellow, Steven |       |           |             |
|                  | Q   | 5,255,028  | 10-19-1993 | Biles, Kevin         |       |           |             |
|                  | R   | 5,283,560  | 02-01-1994 | Bartlett, Joel       |       |           |             |
|                  | S   | 5,289,297  | 02-22-1994 | Bollman et al.       |       |           |             |
|                  | T   | 5,333,255  | 07-26-1994 | Damouth, David       |       |           |             |
|                  | U   | 5,361,165  | 11-01-1994 | Stringfellow et al.  |       |           |             |
|                  | V   | 5,416,890  | 05-16-1995 | Beretta, Giordano    |       |           |             |
|                  | W   | 5,465,101  | 11-07-1995 | Akiba et al.         |       |           |             |
|                  | X   | 5,473,344  | 12-05-1995 | Bacon et al.         |       |           |             |
|                  | Y   | 5,475,812  | 12-12-1995 | Corona et al.        |       |           |             |
|                  | Z   | 5,585,821  | 12-17-1996 | Ishikura et al.      |       |           |             |
|                  | A2  | 5,600,462  | 02-04-1997 | Suzuki et al.        |       |           |             |
|                  | B2  | 5,638,501  | 06-10-1997 | Gough et al.         |       |           |             |
|                  | C2  | 5,651,107  | 07-22-1997 | Frank et al.         |       |           |             |
|                  | D2  | 5,663,746  | 09-02-1997 | Pellenberg et al.    |       |           |             |
|                  | E2  | 5,675,755  | 10-07-1997 | Trueblood, John      |       |           |             |
|                  | F2  | 5,694,532  | 12-02-1997 | Carey et al.         |       |           |             |
|                  | G2  | 5,764,317  | 06-09-1998 | Sadovnik et al.      |       |           |             |
|                  | H2  | 5,796,455  | 08-18-1998 | Mizobata et al.      |       |           |             |
|                  | I2  | 5,805,163  | 09-08-1998 | Bagnas, Emmanuel     |       |           |             |
|                  | J2  | 5,813,742  | 09-29-1998 | Gold et al.          |       |           |             |
|                  | K2  | 5,825,436  | 10-20-1998 | Knight, Kenneth      |       |           |             |
|                  | L2  | 5,828,420  | 10-27-1998 | Marshall et al.      |       |           |             |

|  |    |              |            |                           |  |  |  |
|--|----|--------------|------------|---------------------------|--|--|--|
|  | M2 | 5,831,615    | 11-03-1998 | Drews et al.              |  |  |  |
|  | N2 | 5,835,088    | 11-10-1998 | Jaaskelainen Jr., William |  |  |  |
|  | O2 | 5,883,627    | 03-16-1999 | Pleyer, Sven              |  |  |  |
|  | P2 | 5,923,307    | 07-13-1999 | Hogle IV, Francis         |  |  |  |
|  | Q2 | 5,963,197    | 10-05-1999 | Bacon et al.              |  |  |  |
|  | R2 | 5,999,191    | 12-07-1999 | Frank et al.              |  |  |  |
|  | S2 | 6,005,654    | 12-21-1999 | Kipfer et al.             |  |  |  |
|  | T2 | 6,016,385    | 01-18-2000 | Yee et al.                |  |  |  |
|  | U2 | 6,018,379    | 01-25-2000 | Mizobata et al.           |  |  |  |
|  | V2 | 6,031,530    | 02-29-2000 | Trueblood, John           |  |  |  |
|  | W2 | 6,037,937    | 03-14-2000 | Beaton et al.             |  |  |  |
|  | X2 | 6,061,110    | 05-09-2000 | Hisatake et al.           |  |  |  |
|  | Y2 | 6,072,489    | 06-06-2000 | Gough et al.              |  |  |  |
|  | Z2 | 6,075,531    | 06-13-2000 | DeStefano, George         |  |  |  |
|  | A3 | 6,111,614    | 08-29-2000 | Mugura et al.             |  |  |  |
|  | B3 | 6,118,427    | 09-12-2000 | Buxton et al.             |  |  |  |
|  | C3 | 6,163,318    | 12-19-2000 | Fukuda et al.             |  |  |  |
|  | D3 | 6,181,349    | 01-30-2001 | Bardon et al.             |  |  |  |
|  | E3 | 6,204,902    | 03-20-2001 | Kim et al.                |  |  |  |
|  | F3 | 6,239,852    | 05-29-2001 | Oono et al.               |  |  |  |
|  | G3 | 6,246,407    | 06-12-2001 | Wilks et al.              |  |  |  |
|  | H3 | 6,300,990    | 10-09-2001 | Yamaguchi et al.          |  |  |  |
|  | I3 | 6,317,128    | 11-13-2001 | Harrison et al.           |  |  |  |
|  | J3 | 6,351,298    | 02-26-2002 | Mitsui et al.             |  |  |  |
|  | K3 | 6,356,281    | 03-12-2002 | Isenman, Colin            |  |  |  |
|  | L3 | 6,369,830    | 04-09-2002 | Brunner et al.            |  |  |  |
|  | M3 | 6,377,229    | 04-23-2002 | Sullivan, Alan            |  |  |  |
|  | N3 | 6,438,515    | 08-20-2002 | Crawford et al.           |  |  |  |
|  | O3 | 6,443,579    | 09-03-2002 | Myers, Kenneth            |  |  |  |
|  | P3 | 6,466,185    | 10-15-2002 | Sullivan et al.           |  |  |  |
|  | Q3 | 6,468,157    | 10-22-2002 | Hinami et al.             |  |  |  |
|  | R3 | 6,587,118    | 07-01-2003 | Yoneda, Michiaki          |  |  |  |
|  | S3 | 6,609,799    | 08-26-2003 | Myers, Kenneth            |  |  |  |
|  | T3 | 6,661,425    | 12-09-2003 | Hiroaki, Toshihiko        |  |  |  |
|  | U3 | 6,693,692    | 02-17-2004 | Kaneko et al.             |  |  |  |
|  | V3 | 6,760,003    | 07-06-2004 | Sase, Masahiro            |  |  |  |
|  | W3 | 6,771,327    | 08-03-2004 | Sekiguchi, Kanetaka       |  |  |  |
|  | X3 | 2001/0026625 | 10-04-2001 | Azima et al.              |  |  |  |
|  | Y3 | 2002/0093516 | 07-18-2002 | Brunner et al.            |  |  |  |
|  | Z3 | 2002/0163728 | 11-07-2002 | Myers, Kenneth            |  |  |  |
|  | A4 | 2002/0163729 | 11-07-2002 | Myers, Kenneth            |  |  |  |
|  | B4 | 2003/0132895 | 07-17-2003 | Berstis, Viktors          |  |  |  |
|  | C4 | 2003/0184665 | 10-02-2003 | Berstis, Viktors          |  |  |  |
|  | D4 | 2004/0239582 | 12-02-2004 | Seymour, Bruce            |  |  |  |

**Foreign Patent or Published Foreign Patent Application**

| Examiner Initial | No. | Document No. | Publication Date | Country or Patent Office | Class | Sub-class | Translation |    |
|------------------|-----|--------------|------------------|--------------------------|-------|-----------|-------------|----|
|                  |     |              |                  |                          |       |           | Yes         | No |
|                  | E4  | 24538/00     | 08-29-2000       | AU                       |       |           |             |    |
|                  | F4  | 24806/00     | 07-03-2000       | AU                       |       |           |             |    |
|                  | G4  | 68219/01     | 12-17-2001       | AU                       |       |           |             |    |
|                  | H4  | 82482/98     | 09-06-1998       | AU                       |       |           |             |    |
|                  | I4  | 1011678      | 12-07-1999       | BE                       |       |           |             |    |
|                  | J4  | 2009960      | 09-21-1990       | CA                       |       |           |             |    |
|                  | K4  | 2075807      | 08-13-1991       | CA                       |       |           |             |    |

|  |    |             |            |    |  |  |  |  |
|--|----|-------------|------------|----|--|--|--|--|
|  | L4 | 2139696     | 07-07-1995 | CA |  |  |  |  |
|  | M4 | 2320694     | 08-26-1999 | CA |  |  |  |  |
|  | N4 | 19920789    | 05-04-2000 | DE |  |  |  |  |
|  | O4 | 2730785     | 01-25-1979 | DE |  |  |  |  |
|  | P4 | 29912074    | 11-25-1999 | DE |  |  |  |  |
|  | Q4 | 0389123     | 09-26-1990 | EP |  |  |  |  |
|  | R4 | 0703563     | 03-27-1996 | EP |  |  |  |  |
|  | S4 | 0802684     | 10-22-1997 | EP |  |  |  |  |
|  | T4 | 0935191     | 08-11-1999 | EP |  |  |  |  |
|  | U4 | 0999088     | 05-10-2000 | EP |  |  |  |  |
|  | V4 | 1057070     | 08-26-1999 | EP |  |  |  |  |
|  | W4 | 1093008     | 04-18-2001 | EP |  |  |  |  |
|  | X4 | 1151430     | 08-17-2000 | EP |  |  |  |  |
|  | Y4 | 1177527     | 11-16-2000 | EP |  |  |  |  |
|  | Z4 | 1287401     | 03-05-2003 | EP |  |  |  |  |
|  | A5 | 454423      | 10-30-1991 | EP |  |  |  |  |
|  | B5 | 595387      | 05-04-1994 | EP |  |  |  |  |
|  | C5 | 662669      | 01-06-1994 | EP |  |  |  |  |
|  | D5 | 2145897     | 04-03-1985 | GB |  |  |  |  |
|  | E5 | 2245092     | 12-18-1991 | GB |  |  |  |  |
|  | F5 | 2312584     | 10-29-1997 | GB |  |  |  |  |
|  | G5 | 2347003     | 08-23-2000 | GB |  |  |  |  |
|  | H5 | 2372618     | 08-28-2002 | GB |  |  |  |  |
|  | I5 | 93472       | 11-11-1994 | IL |  |  |  |  |
|  | J5 | 09-033858   | 02-07-1997 | JP |  |  |  |  |
|  | K5 | 10003355    | 01-06-1998 | JP |  |  |  |  |
|  | L5 | 10039782    | 02-13-1998 | JP |  |  |  |  |
|  | M5 | 10039821    | 02-13-1998 | JP |  |  |  |  |
|  | N5 | 10105829    | 04-24-1998 | JP |  |  |  |  |
|  | O5 | 10228347    | 08-25-1998 | JP |  |  |  |  |
|  | P5 | 11205822    | 07-30-1999 | JP |  |  |  |  |
|  | Q5 | 2000-142173 | 05-23-2000 | JP |  |  |  |  |
|  | R5 | 2000-347645 | 12-15-2000 | JP |  |  |  |  |
|  | S5 | 2001-215332 | 04-02-2002 | JP |  |  |  |  |
|  | T5 | 2002-099223 | 10-14-2003 | JP |  |  |  |  |
|  | U5 | 2002-350772 | 12-04-2002 | JP |  |  |  |  |
|  | V5 | 3021902     | 01-30-1991 | JP |  |  |  |  |
|  | W5 | 3174580     | 07-29-1991 | JP |  |  |  |  |
|  | X5 | 3226095     | 10-07-1991 | JP |  |  |  |  |
|  | Y5 | 4191755     | 07-10-1992 | JP |  |  |  |  |
|  | Z5 | 6274305     | 09-30-1994 | JP |  |  |  |  |
|  | A6 | 8030388     | 02-02-1996 | JP |  |  |  |  |
|  | B6 | 8036375     | 02-06-1996 | JP |  |  |  |  |
|  | C6 | 8095741     | 04-12-1996 | JP |  |  |  |  |
|  | D6 | 9282357     | 10-31-1997 | JP |  |  |  |  |
|  | E6 | 9308769     | 12-02-1997 | JP |  |  |  |  |
|  | F6 | 1005868     | 10-23-1997 | NL |  |  |  |  |
|  | G6 | 20005178    | 04-17-2001 | NO |  |  |  |  |
|  | H6 | 343229      | 04-23-2001 | PL |  |  |  |  |
|  | I6 | 00/036578   | 06-22-2000 | WO |  |  |  |  |
|  | J6 | 00/048167   | 08-17-2000 | WO |  |  |  |  |
|  | K6 | 00/68887    | 11-16-2000 | WO |  |  |  |  |
|  | L6 | 01/01290    | 01-04-2001 | WO |  |  |  |  |
|  | M6 | 01/095019   | 12-13-2001 | WO |  |  |  |  |
|  | N6 | 02/091033   | 11-14-2002 | WO |  |  |  |  |
|  | O6 | 03/003109   | 01-09-2003 | WO |  |  |  |  |

|  |    |          |            |    |  |  |  |  |
|--|----|----------|------------|----|--|--|--|--|
|  | P6 | 91/12554 | 08-22-1991 | WO |  |  |  |  |
|  | Q6 | 98/47106 | 10-22-1998 | WO |  |  |  |  |
|  | R6 | 99/42889 | 08-26-1999 | WO |  |  |  |  |
|  | S6 | 9703025  | 11-04-1997 | ZA |  |  |  |  |

#### Other Documents

| Examiner Initial | No. | Author, Title, Date, Place (e.g. Journal) of Publication   |
|------------------|-----|--|
|                  | T6  | "CLEARBOARD 1991-1994," <a href="http://web.media.mit.edu/~ishii/CB.html">http://web.media.mit.edu/~ishii/CB.html</a>                                  |
|                  | U6  | "TEAMWORKSTATION 1989-1994," <a href="http://web.media.mit.edu/~ishii/TWS.html">http://web.media.mit.edu/~ishii/TWS.html</a>                           |
|                  | V6  | "TEXTARC: AN ALTERNATE WAY TO VIEW A TEXT," <a href="http://textarc.org">http://textarc.org</a>  |
|                  | W6  | "TEXTARC: NYSCA GRANT AND PUBLIC INSTALLATION," <a href="http://textarc.org">http://textarc.org</a>  |
|                  | X6  | "TEXTARC: THE PRINT AND THE ARTIST," <a href="http://textarc.org">http://textarc.org</a>   |
|                  | Y6  | Harrison et al., "Transparent Layered User Interfaces: An Evaluation of a Display Design to Enhance Focused and Divided Attention" ACM, 13 pages, 1995 |
|                  | Z6  | Ishii et al., "Iterative Design of Seamless Collaboration Media", Communications of the ACM, August 1994, Volume 37, Pages 83-97.                      |
|                  | A7  | Office Action 10/048,638 06/06/2007  |
|                  | B7  | Office Action 10/048,638 06/26/2006  |
|                  | C7  | Office Action 10/048,638 09/30/2004  |
|                  | D7  | Office Action 10/048,638 10/17/2005  |
|                  | E7  | Office Action 10/048,638 11/27/2007  |
|                  | F7  | Office Action 10/048,966 01/12/2006  |
|                  | G7  | Office Action 10/048,966 01/27/2005  |
|                  | H7  | Office Action 10/048,966 03/15/2006  |
|                  | I7  | Office Action 10/048,966 05/02/2007  |
|                  | J7  | Office Action 10/048,966 05/03/2006  |
|                  | K7  | Office Action 10/048,966 07/14/2005  |
|                  | L7  | Office Action 10/048,966 08/18/2006  |
|                  | M7  | Office Action 10/049,272 01/23/2006  |
|                  | N7  | Office Action 10/049,272 03/25/2008  |
|                  | O7  | Office Action 10/049,272 05/21/2007  |
|                  | P7  | Office Action 10/049,272 07/13/2005  |
|                  | Q7  | Office Action 10/049,272 07/26/2004  |
|                  | R7  | Office Action 10/049,272 08/28/2006  |
|                  | S7  | Office Action 10/049,272 10/12/2007  |
|                  | T7  | Office Action 10/049,272 11/29/2004  |
|                  | U7  | Office Action 10/049,272 12/14/2007  |
|                  | V7  | Office Action 10/049,272 12/31/2003  |
|                  | W7  | Office Action 10/476,590 03/03/2006  |
|                  | X7  | Office Action 10/476,590 04/19/2007  |
|                  | Y7  | Office Action 10/476,590 10/06/2006  |
|                  | Z7  | Office Action 10/476,590 10/16/2007  |
|                  | A8  | Office Action 10/476,590 10/16/2007  |
|                  | B8  | Office Action 10/489,101 03/29/2006  |
|                  | C8  | Office Action 10/489,101 07/16/2007  |
|                  | D8  | Office Action 10/489,101 07/28/2005  |
|                  | E8  | Office Action 10/489,101 11/22/2005  |
| Examiner         |     |  |

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